

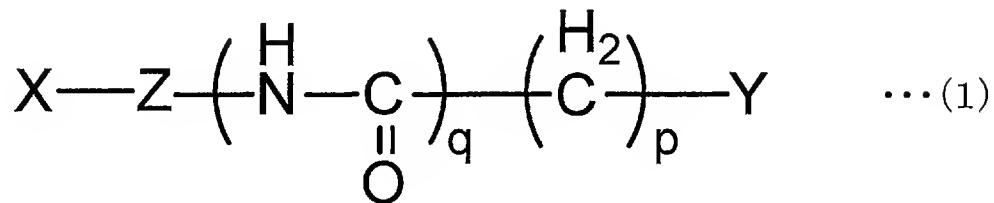
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims:

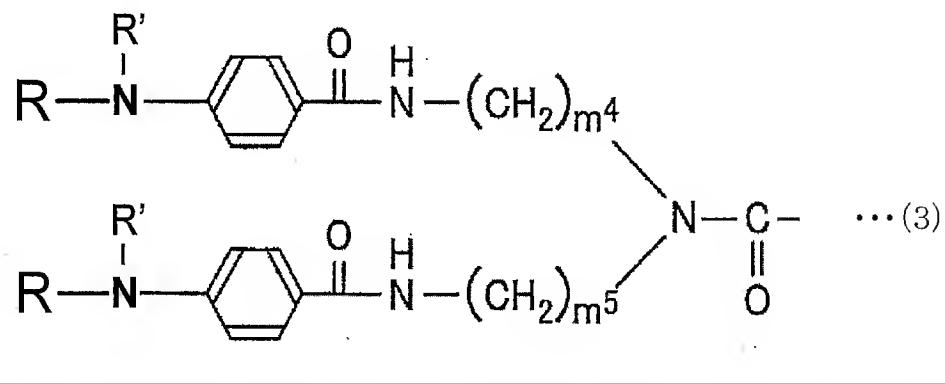
1. (Currently Amended) A ligand conjugate comprising a linker compound and a sugar chain ~~bound to each other via an aromatic amino group,~~

the linker compound having a structure represented by General Formula (1):



where p and q are independently integers of not less than 0 but not more than 6, in which

~~X is a structure comprising one, two, or three hydrocarbon derivative chains which have the aromatic amino group at an end and may have a carbon-nitrogen bond in a main chain represented by formula 3:~~

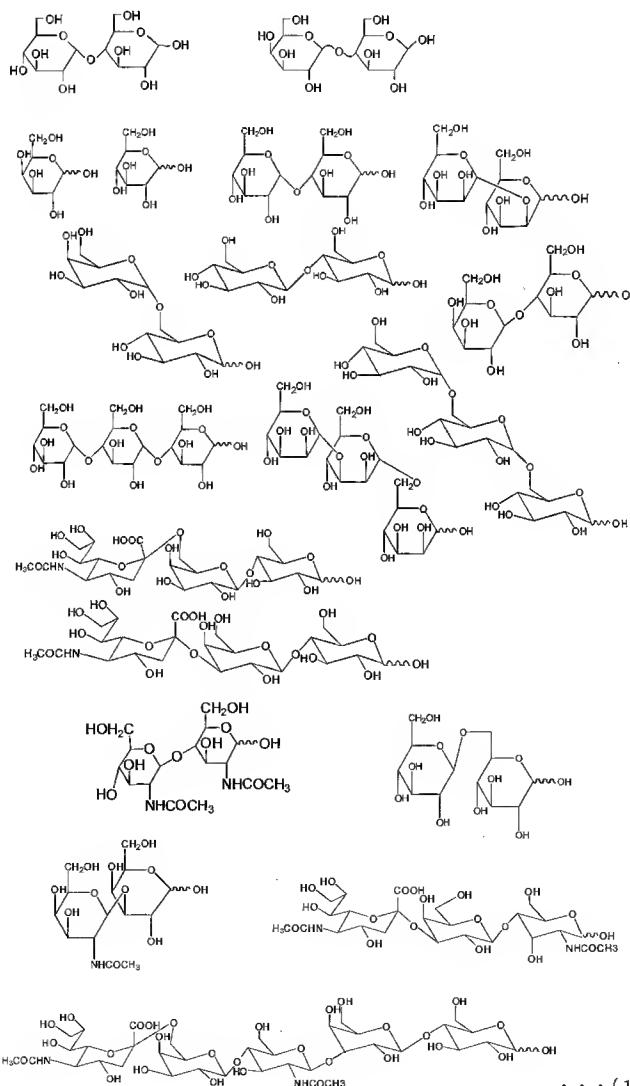


wherein m⁴ and m⁵ are each independently integers of not less than 1 but not more than 6, and R' is a hydrogen (H) or R,

Y is a sulfur atom or a hydrocarbon structure containing a sulfur atom having an S-S bond or an S-H group, and

Z is a straight-chain structure comprising a carbon-carbon bond or carbon-oxygen bond, and

R comprises a substituent derived from the sugar chain being selected from the group consisting of Group (110) (101):

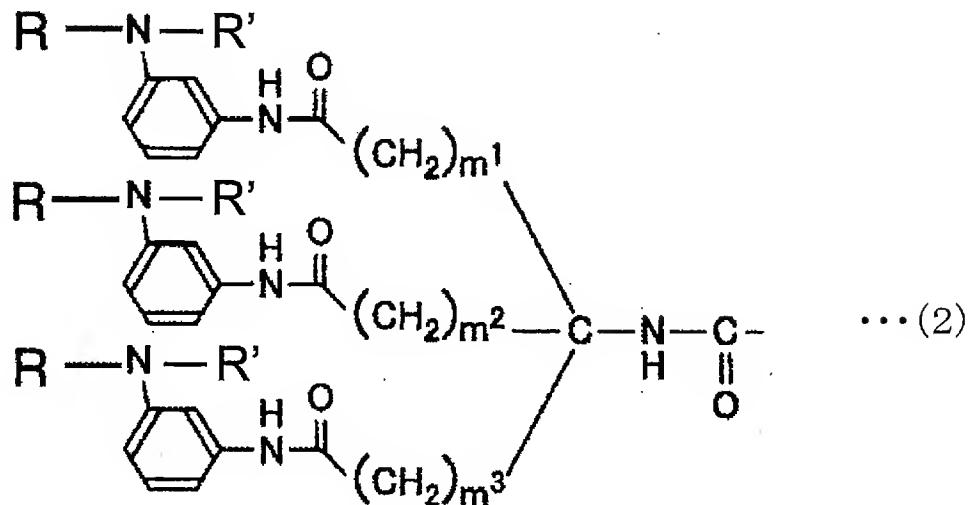


• • • (101)

2. (Cancelled).

3. (Withdrawn) The ligand conjugate as set forth in Claim 1 or 2, wherein:

X has a structure represented by General Formula (2):



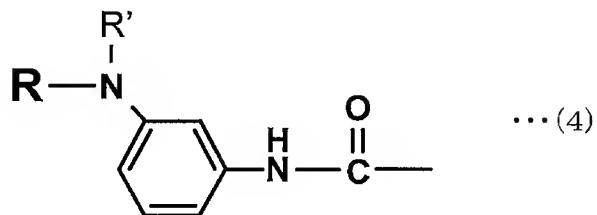
where m^1 , m^2 , and m^3 are independently integers of not less than 0 but not more than 6, and R' is a hydrogen (H) or R,

R being a compound derived from the sugar chain selected from Group (101).

4. (Cancelled).

5. (Withdrawn) The ligand conjugate as set forth in 1 or 2, wherein:

X has a structure represented by General Formula (4):

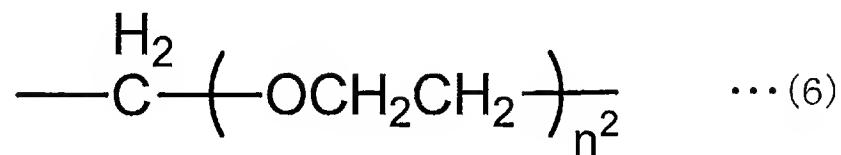
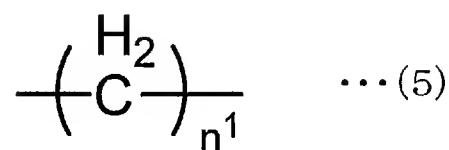


where R' is a hydrogen (H), or R,

R being a compound derived from the sugar chain selected from Group (101).

6. (Currently Amended) The ligand conjugate ~~as set forth in Claim 1 or 2 of claim 1,~~
wherein:

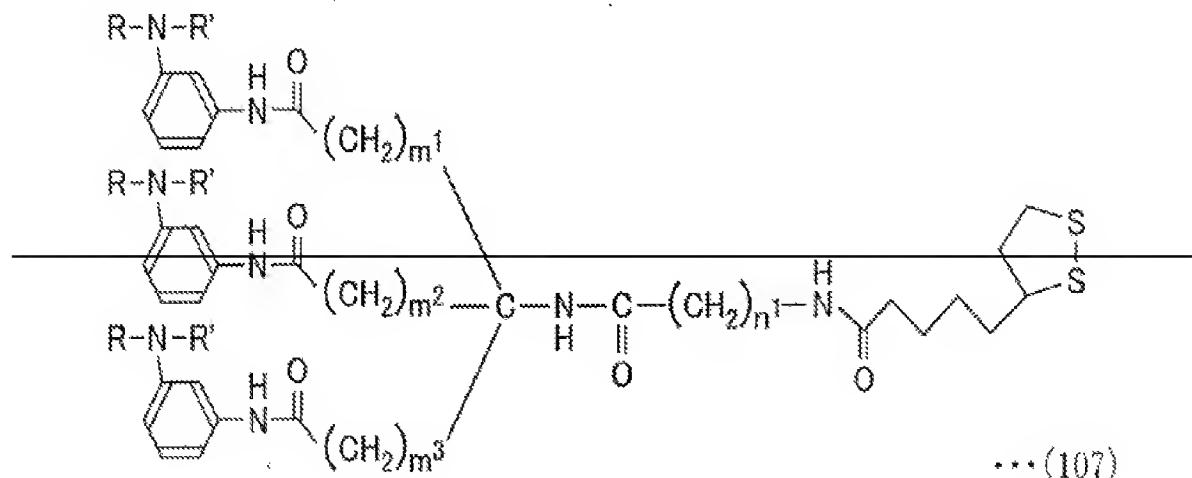
Z has a structure of Formula (5) or (6):



where n¹ and n² are independently integers of not less than 1 but not more than 6.

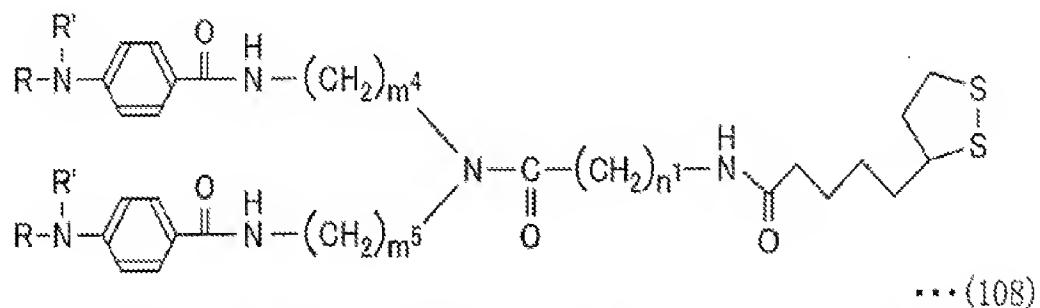
7. (Currently Amended) The ligand conjugate as set forth in Claim 1 having:

a structure represented by General Formula (107):



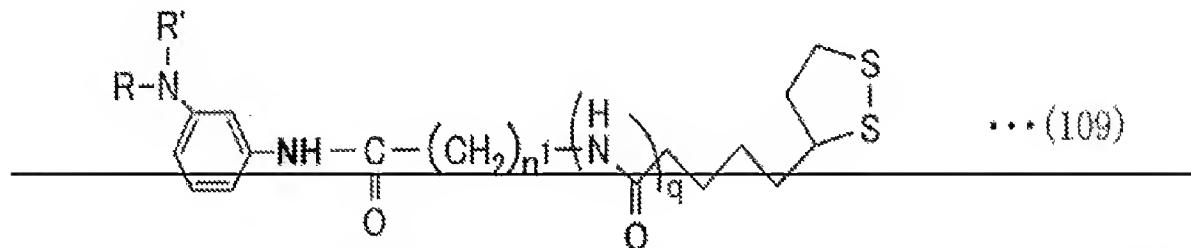
~~where m^1 , m^2 , and m^3 are independently integers of not less than 0 but not more than 6, n^1 is an integer not less than 1 but not more than 6, and R' is a hydrogen (H) or R;~~

a structure represented by General Formula (108):



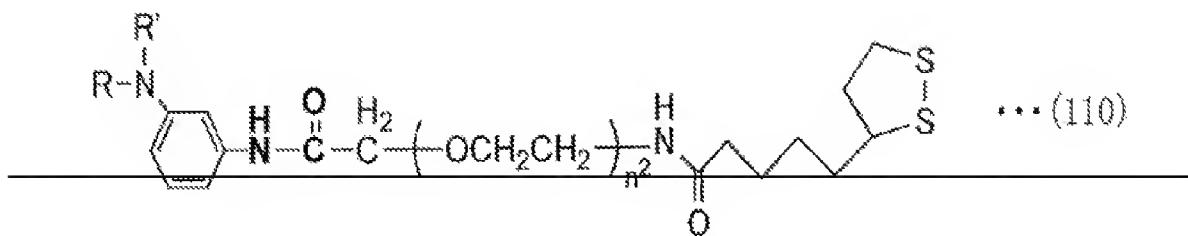
~~where m^4 and m^5 are independently integers of not less than 0 but not more than 6, n^1 is an integer of not less than 1 but not more than 6, and R' is a hydrogen (H) or R;~~

a structure represented by General Formula (109):



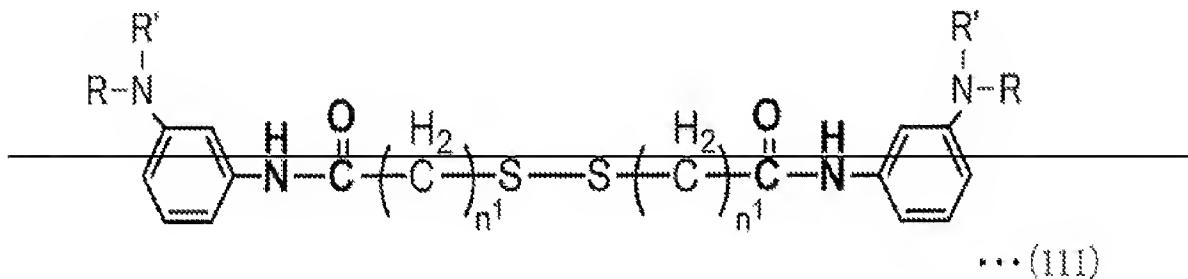
~~where n^1 and q are independently integers of not less than 0 but not more than 6, and R' is a hydrogen (H) or R;~~

— a structure represented by General Formula (110):



~~where n^2 is an integer of not less than 1 but not more than 6, and R' is a hydrogen (H) or R;~~
~~or~~

~~a structure represented by General Formula (III):~~



~~where n^1 is an integer of not less than 1 but not more than 6, and R' is a hydrogen (H) or R,~~

~~R being a compound derived from the sugar chain selected from Group (101).~~

8. (Currently Amended) A ligand carrier in which the ligand conjugate as set forth in any one of Claims ~~1 to 7 1 or 6-7~~ is immobilized on a ~~supporter support~~ having a metal on a surface thereof.

9. (Cancelled).

10. (Currently Amended) A method for analyzing protein, comprising:

allowing the ligand conjugate as set forth in any one of Claims ~~1 to 7 1 and 6-8~~ to stand in contact with a ~~supporter support~~ so as to prepare a ligand carrier in which the ligand conjugate is immobilized on the ~~supporter support~~;

analyzing intermolecular interaction by surface plasmon resonance (SPR) after allowing the ligand carrier to stand in contact with a protein solution; and

performing mass spectroscopy after the analysis of the intermolecular interaction, so as to identify a protein bound on the ligand carrier.

11. (New) The ligand conjugate as set forth in Claim 1, wherein m^4 and m^5 are each 2.

12. (New) A method for analyzing protein, comprising:

allowing the ligand carrier of claim 8 to stand in contact with a protein solution, and analyzing intermolecular interaction by SPR measurement.